Wiring Diagrams

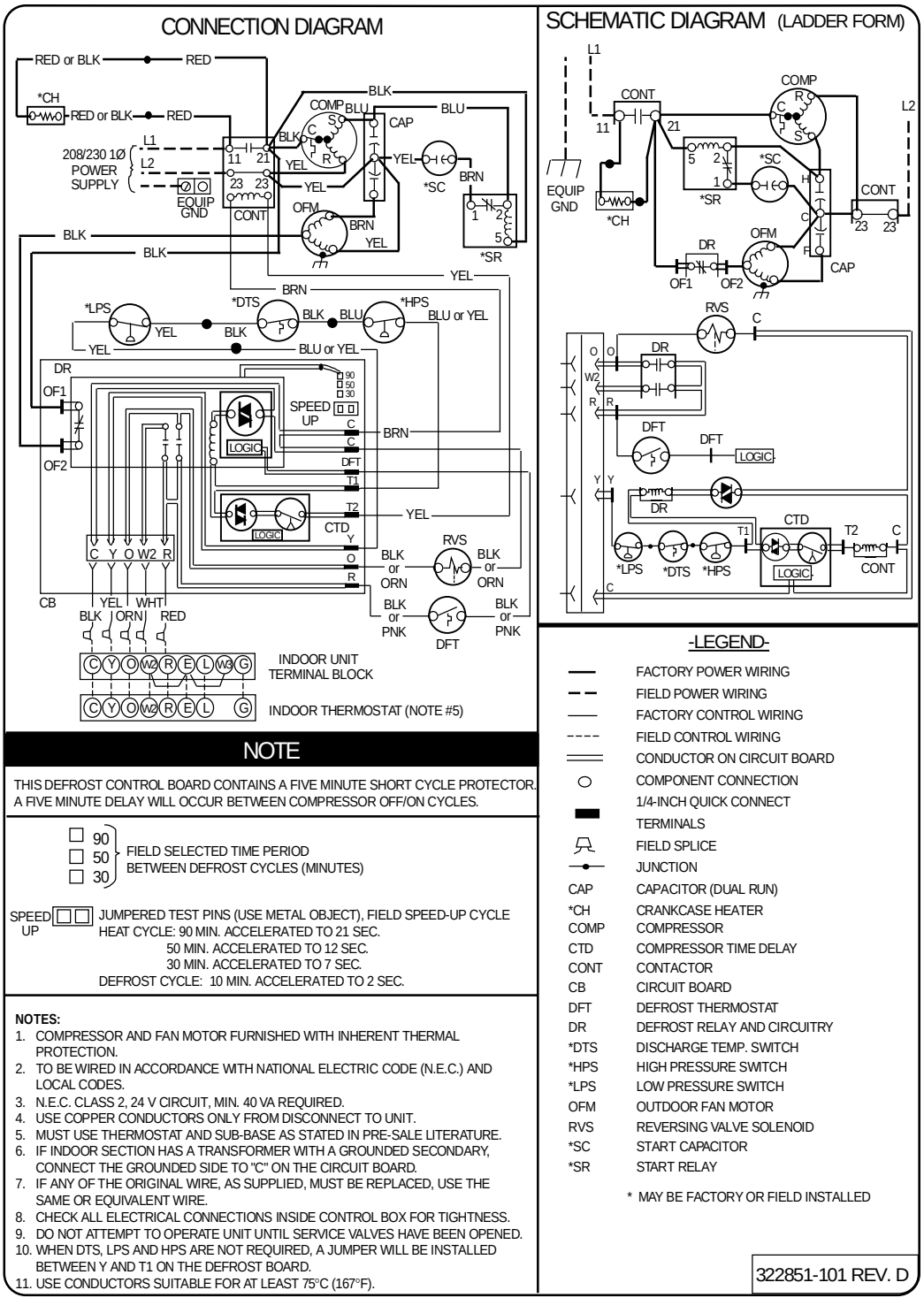
CONNECTION DIAGRAM
SCHEMATIC DIAGRAM (LADDER FORM)
INDOOR UNIT TERMINAL BLOCK
INDOOR THERMOSTAT (NOTE #5)
NOTE
THIS DEFROST CONTROL BOARD CONTAINS A FIVE MINUTE SHORT CYCLE PROTECTOR. A FIVE MINUTE DELAY WILL OCCUR BETWEEN COMPRESSOR OFF/ON CYCLES.
FIELD SELECTED TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)
JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE
HEAT CYCLE: 90 MIN. ACCELERATED TO 21 SEC.
50 MIN. ACCELERATED TO 12 SEC.
30 MIN. ACCELERATED TO 7 SEC.
DEFROST CYCLE: 10 MIN. ACCELERATED TO 2 SEC.
NOTES:
1. COMPRESSOR AND FAN MOTOR FURNISHED WITH INHERENT THERMAL PROTECTION.
2. TO BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (N.E.C.) AND LOCAL CODES.
3. N.E.C. CLASS 2, 24 V CIRCUIT, MIN. 40 VA REQUIRED.
4. USE COPPER CONDUCTORS ONLY FROM DISCONNECT TO UNIT.
5. MUST USE THERMOSTAT AND SUB-BASE AS STATED IN PRE-SALE LITERATURE.
6. IF INDOOR SECTION HAS A TRANSFORMER WITH A GROUNDED SECONDARY, CONNECT THE GROUNDED SIDE TO "C" ON THE CIRCUIT BOARD.
7. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED, MUST BE REPLACED, USE THE SAME OR EQUIVALENT WIRE.
8. CHECK ALL ELECTRICAL CONNECTIONS INSIDE CONTROL BOX FOR TIGHTNESS.
9. DO NOT ATTEMPT TO OPERATE UNIT UNTIL SERVICE VALVES HAVE BEEN OPENED.
10. WHEN DTS, LPS AND HPS ARE NOT REQUIRED, A JUMPER WILL BE INSTALLED BETWEEN Y AND T1 ON THE DEFROST BOARD.
11. USE CONDUCTORS SUITABLE FOR AT LEAST 75°C (167°F).
-LEGEND-
FACTORY POWER WIRING
FIELD POWER WIRING
FACTORY CONTROL WIRING
FIELD CONTROL WIRING
CONDUCTOR ON CIRCUIT BOARD
COMPONENT CONNECTION
1/4-INCH QUICK CONNECT
TERMINALS
FIELD SPLICE
JUNCTION
CAP CAPACITOR (DUAL RUN)
*CH CRANKCASE HEATER
COMP COMPRESSOR
CTD COMPRESSOR TIME DELAY
CONT CONTACTOR
CB CIRCUIT BOARD
DFT DEFROST THERMOSTAT
DR DEFROST RELAY AND CIRCUITRY
*DTS DISCHARGE TEMP. SWITCH
*HPS HIGH PRESSURE SWITCH
*LPS LOW PRESSURE SWITCH
OFM OUTDOOR FAN MOTOR
RVS REVERSING VALVE SOLENOID
*SC START CAPACITOR
*SR START RELAY
* MAY BE FACTORY OR FIELD INSTALLED
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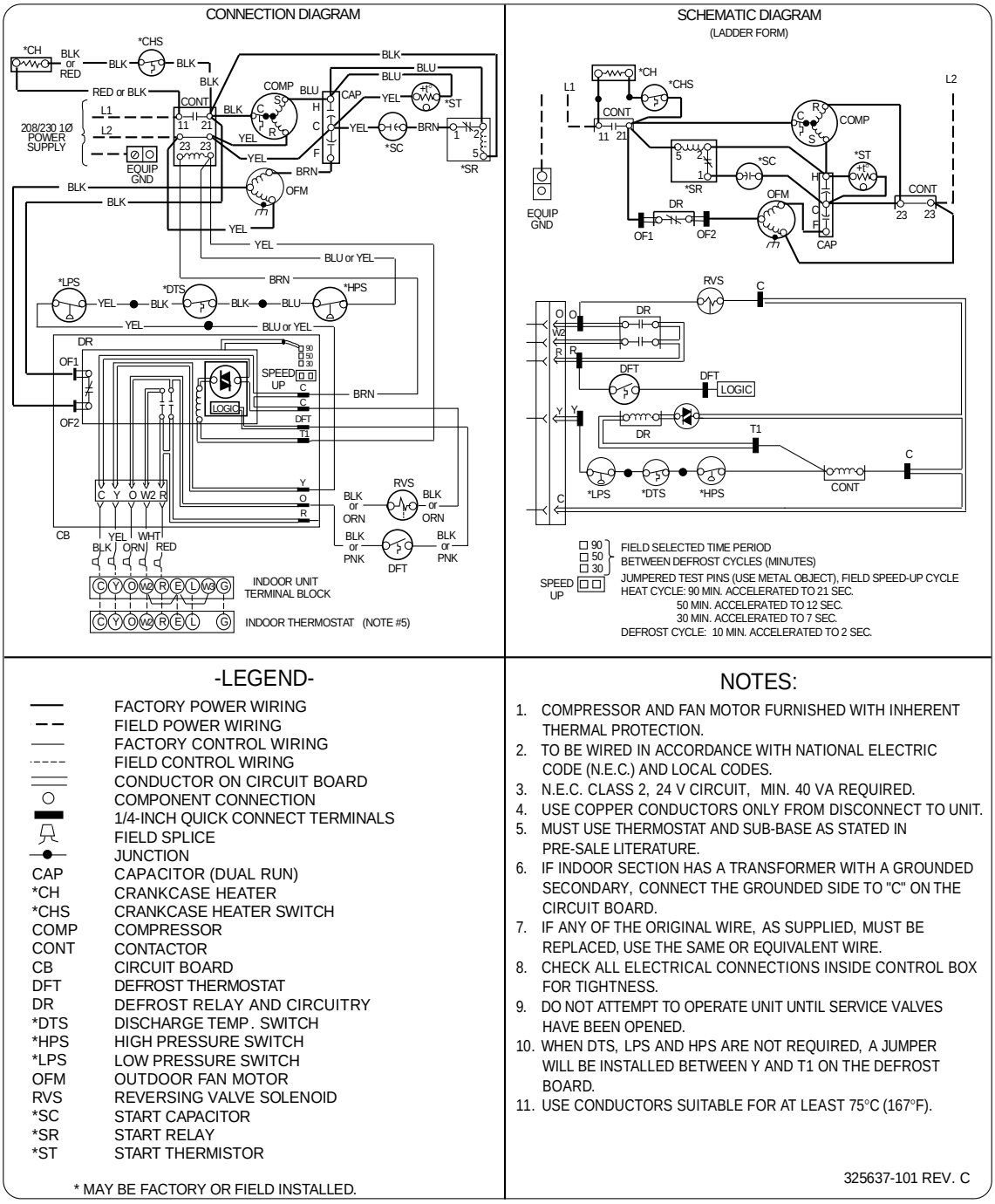
Fig. 1—38BYC024-042 (31)
208-230v, 1 Phase, 60 Hertz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-LEGEND-

——	FACTORY POWER WIRING
– –	FIELD POWER WIRING
——	FACTORY CONTROL WIRING
-----	FIELD CONTROL WIRING
═══	CONDUCTOR ON CIRCUIT BOARD
○	COMPONENT CONNECTION
▬	1/4-INCH QUICK CONNECT TERMINALS
⏢	FIELD SPLICE
—●—	JUNCTION
CAP	CAPACITOR (DUAL RUN)
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CONT	CONTACTOR
CB	CIRCUIT BOARD
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY AND CIRCUITRY
*DTS	DISCHARGE TEMP. SWITCH
*HPS	HIGH PRESSURE SWITCH
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
RVS	REVERSING VALVE SOLENOID
*SC	START CAPACITOR
*SR	START RELAY
*ST	START THERMISTOR

* MAY BE FACTORY OR FIELD INSTALLED.

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10. WHEN DTS, LPS AND HPS ARE NOT REQUIRED, A JUMPER WILL BE INSTALLED BETWEEN Y AND T1 ON THE DEFROST BOARD.
11. USE CONDUCTORS SUITABLE FOR AT LEAST 75°C (167°F).

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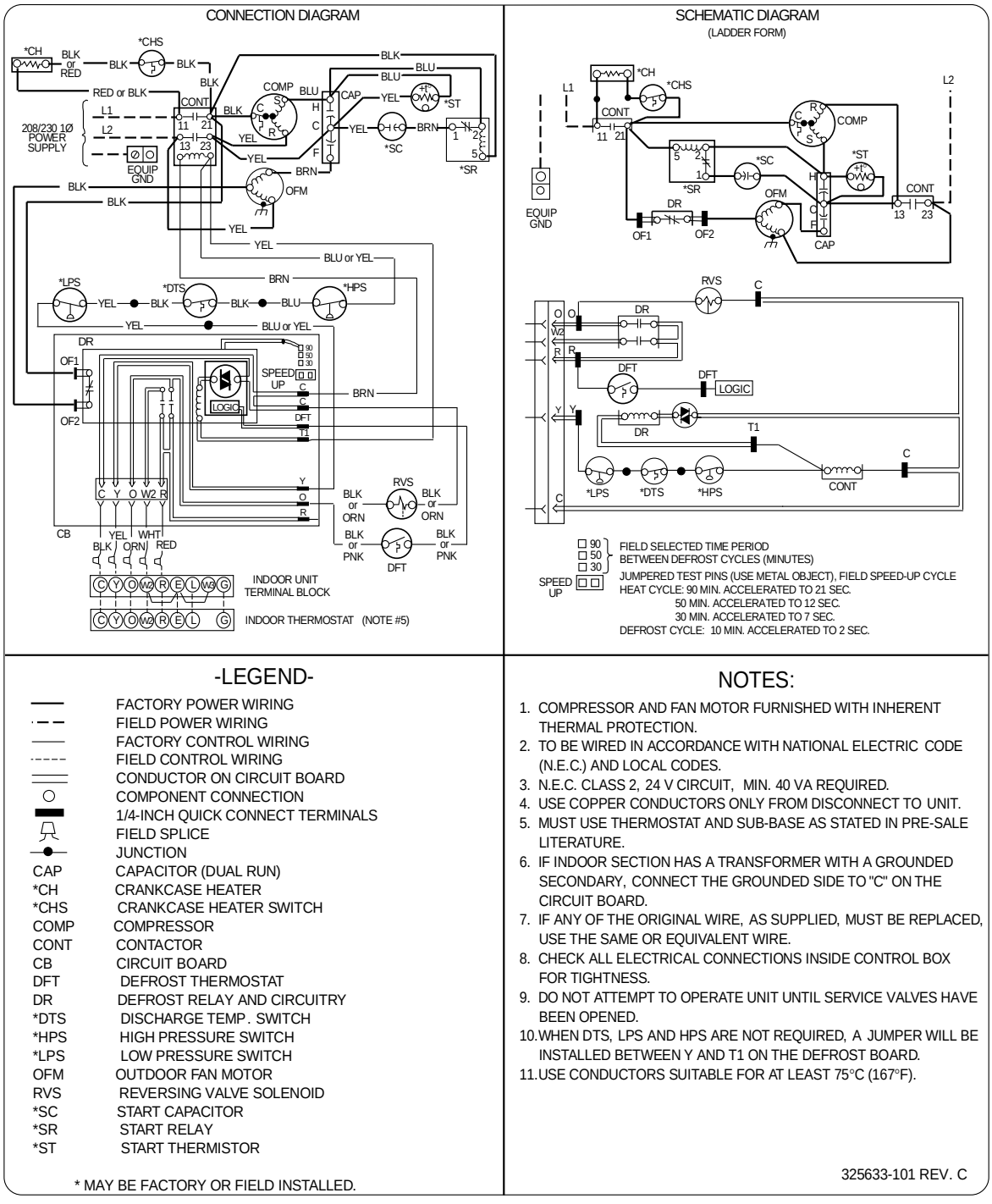
Fig. 2—38BYC018 (32), 048 (32) 208-230v, 1 Phase, 60 Hertz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-LEGEND-

——	FACTORY POWER WIRING
- - -	FIELD POWER WIRING
——	FACTORY CONTROL WIRING
- - - -	FIELD CONTROL WIRING
	CONDUCTOR ON CIRCUIT BOARD
○	COMPONENT CONNECTION
▬	1/4-INCH QUICK CONNECT TERMINALS
	FIELD SPLICE
—●—	JUNCTION
CAP	CAPACITOR (DUAL RUN)
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CONT	CONTACTOR
CB	CIRCUIT BOARD
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325633-101 REV. C

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Fig. 3—38BYC060 (32) 208-230v, 1 Phase, 60 Hertz

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